

ROUND DIFFUSERS

ADJUSTABLE ROUND DIFFUSER

Designed for smooth 360° air distribution

MODELS ICG - High Ceiling Round Diffuser Spun Aluminum

The Airvector® **ICG** Aluminum Adjustable Round Diffusers are recommended for heating, ventilating, and cooling applications. **ICG** diffusers provide a 360° air diffusion pattern and excellent performance in VAV systems.

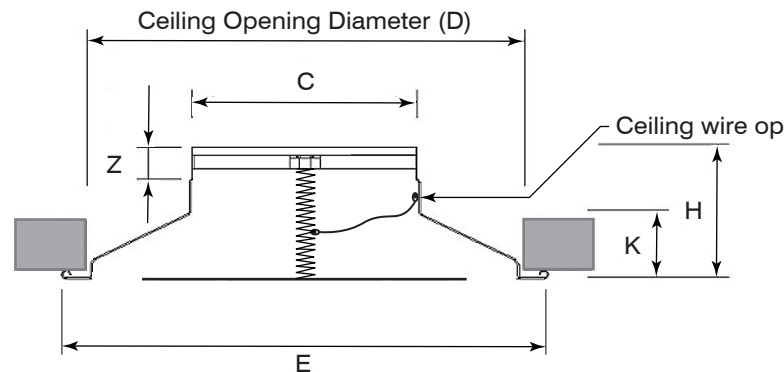
Full adjustability is possible by rotating the inner core clockwise or counterclockwise to move the cones up or down, changing from horizontal projection to vertical projection in accordance with the supply air temperature and reducing stratification. **ICG** diffusers provide great performance in temperatures differentials up to 54°F (12°C) and are suitable for premises with ceilings 8.5 ft (2.6 m) and higher.

KEY FEATURES

- Heavy-gauge aluminum construction
- Fully adjustable



ICG



Model	Duct Size	A (in)	C (in)	E (in)	H (in)	K (in)	Z (in)
ICG 06	6"	11 59/64	5 3/4	13 5/16	4 15/16	1 47/64	1
ICG 08	8"	15 5/32	7 3/4	16 47/64	4 17/32	2 9/32	1
ICG 10	10"	18 17/64	9 3/4	19 3/8	4 31/64	2 1/4	1
ICG 12	12"	22 13/64	11 3/4	23 17/64	6 19/32	3 5/32	1
ICG 14	14"	24 13/16	13 29/32	26 1/16	5 33/64	3 17/64	1

Up to 14", pricing available upon request.

HOW TO ORDER DCG ROUND DIFFUSERS

ICG08-CW/W

MODEL SERIES

Fully Adjustable Aluminum **ICG**

ROUND NECK

- 6" **06**
- 8" **08**
- 10" **10**
- 12" **12**
- 14" **14**

OPTION

Ceiling wire Option **-CW**

FINISH

White **/W**

HIGH CEILING ROUND DIFFUSER SPUN ALUMINUM

Recommended Velocity and CFM

Neck Diameter	Free Area (sqf)	Vmin (fpm)	Vmax (fpm)	Min cfm	Max cfm
6" (160 mm)	0.215	590	1122	126	241
8" (200 mm)	0.338	590	1142	200	388
10" (250 mm)	0.527	590	886	312	468
12" (315 mm)	0.839	590	1122	491	950
14" (355 mm)	1.035	590	1220	609	1279
16" (400 mm)	1.345	590	1181	794	1606
18" (450 mm)	1.711	590	886	917	1561
20" (500 mm)	2.110	590	886	1112	1858

Isothermal Performance Data in Horizontal Flow Position

SIZE	Neck Velocity (fpm)	400	500	600	700	800	1000	1200	1400	1600
	Velocity Pressure (in H ₂ O)	.010	.016	.023	.031	.040	.063	.090	.122	.160
6" 160 mm	CFM	79	98	118	137	157	196	236	275	314
	Pressure Loss (in wg.)	.032	.044	.060	.080	.104	.153	.241	.301	.402
	NC	< 15	< 15	< 20	20	< 20	30	< 35	> 35	> 35
	Throw - Radius (ft)	4	5	6	9	11	13	17	20	25
8" 200 mm	CFM	140	175	209	244	279	349	419	489	559
	Pressure Loss (in wg.)	.028	.036	.056	.072	.096	.149	.209	.281	.361
	NC	< 15	< 15	< 20	30	< 35	< 35	35	> 35	> 35
	Throw - Radius (ft)	5	7	9	11	12	14	17	19	22
10" 250 mm	CFM	218	273	327	382	436	545	654	764	873
	Pressure Loss (in wg.)	.040	.060	.092	.120	.161	.249	.402	.602	-
	NC	< 15	< 15	< 20	< 25	< 30	35	> 35	> 35	-
	Throw - Radius (ft)	7	9	11	13	15	20	25	33	-
12" 315 mm	CFM	314	393	471	550	628	785	942	1100	1257
	Pressure Loss (in wg.)	.040	.056	.096	.129	.201	.309	.482	.703	-
	NC	< 15	< 20	< 30	30	< 40	> 40	> 40	> 40	-
	Throw - Radius (ft)	11	12	14	16	17	19	22	-	-
14" 355 mm	CFM	428	535	641	748	855	1069	1283	1497	1710
	Pressure Loss (in wg.)	.032	.052	.072	.108	.149	.221	.361	.482	.602
	NC	< 15	20	25	< 30	< 35	< 40	> 40	> 40	> 40
	Throw - Radius (ft)	10	12	15	17	18	21	26	27	-

Performance Notes

- NC value based on 10 db room attenuation
- Throw values are based on isothermal air and terminal velocity of 40 fpm
- For exposed duct application, multiply throw values by 0.7
- Downward Projection of Heated Air values represent the distance to a total air velocity of essentially zero. The two values are for 6" neck and 12" neck. In horizontal position.